

Table S2. Loss or gain of methylation (LOM or GOM, respectively)

> 2.5% difference from median		H19-ICR	IGF2-DMR	KvDMR	NESPAS-ICR	RUNX1
MZ	LOM in twin pairs	454 15.5%	292 16.9%	228 8.4%	196 7.1%	204 6.4%
	LOM not in twin pairs	669 22.8%	355 20.5%	416 15.3%	456 16.5%	334 10.5%
	no LOM	1814 61.8%	1083 62.6%	2080 76.4%	2107 76.4%	2637 83.1%
chi-square test		ns	ns	P < 0.001	ns	ns
DZ	LOM in twin pairs	450 15.1%	278 16.2%	148 5.4%	174 6.3%	198 6.1%
	LOM not in twin pairs	671 22.6%	362 21.1%	445 16.2%	457 16.6%	337 10.4%
	no LOM	1850 62.3%	1074 62.7%	2162 78.5%	2118 77.0%	2699 83.5%
MZ	GOM in twin pairs	458 15.6%	248 14.3%	188 6.9%	198 7.2%	266 8.4%
	GOM not in twin pairs	696 23.7%	390 22.5%	499 18.3%	475 17.2%	557 17.5%
	no GOM	1783 60.7%	1092 63.1%	2037 74.8%	2086 75.6%	2352 74.1%
chi-square test		ns	ns	P < 0.001	ns	ns
DZ	GOM in twin pairs	458 15.4%	248 14.5%	152 5.5%	200 7.3%	266 8.2%
	GOM not in twin pairs	696 23.4%	390 22.8%	450 16.3%	483 17.6%	561 17.3%
	no GOM	1817 61.2%	1076 62.8%	2153 78.1%	2066 75.2%	2407 74.4%
> 5.0% difference from median		H19-ICR	IGF2-DMR	KvDMR	NESPAS-ICR	RUNX1
MZ	LOM in twin pairs	192 6.5%	180 10.4%	22 0.8%	50 1.8%	88 2.8%
	LOM not in twin pairs	549 18.7%	290 16.8%	245 9.0%	172 6.2%	155 4.9%
	no LOM	2196 74.8%	1260 72.8%	2457 90.2%	2537 92.0%	2932 92.3%
chi-square test		ns	ns	P < 0.001	P < 0.001	ns
DZ	LOM in twin pairs	180 6.1%	166 9.7%	12 0.4%	28 1.0%	86 2.7%
	LOM not in twin pairs	553 18.6%	297 17.3%	142 5.2%	172 6.3%	155 4.8%
	no LOM	2238 75.3%	1251 73.0%	2601 94.4%	2549 92.7%	2993 92.5%
MZ	GOM in twin pairs	250 8.5%	108 6.2%	24 0.9%	16 0.6%	52 1.6%
	GOM not in twin pairs	590 20.1%	308 17.8%	190 7.0%	193 7.0%	313 9.9%
	no GOM	2097 71.4%	1314 76.0%	2510 92.1%	2550 92.4%	2810 88.5%
chi-square test		ns	ns	P < 0.01	ns	ns
DZ	GOM in twin pairs	250 8.4%	108 6.3%	26 0.9%	16 0.6%	52 1.6%
	GOM not in twin pairs	590 19.9%	308 18.0%	155 5.6%	195 7.1%	314 9.7%
	no GOM	2131 71.7%	1298 75.7%	2574 93.4%	2538 92.3%	2868 88.7%
> 7.5% difference from median		H19-ICR	IGF2-DMR	KvDMR	NESPAS-ICR	RUNX1
MZ	LOM in twin pairs	100 3.4%	120 6.9%	0 0.0%	28 1.0%	58 1.8%
	LOM not in twin pairs	418 14.2%	242 14.0%	136 5.0%	50 1.8%	85 2.7%
	no LOM	2419 82.4%	1368 79.1%	2588 95.0%	2681 97.2%	3032 95.5%
chi-square test		ns	ns	P < 0.001	P < 0.001	ns
DZ	LOM in twin pairs	82 2.8%	106 6.2%	2 0.1%	6 0.2%	58 1.8%
	LOM not in twin pairs	422 14.2%	247 14.4%	51 1.9%	50 1.8%	85 2.6%
	no LOM	2467 83.0%	1361 79.4%	2702 98.1%	2693 98.0%	3091 95.6%
MZ	GOM in twin pairs	182 6.2%	52 3.0%	2 0.1%	4 0.1%	18 0.6%
	GOM not in twin pairs	453 15.4%	247 14.3%	88 3.2%	84 3.0%	170 5.4%
	no GOM	2302 78.4%	1431 82.7%	2634 96.7%	2671 96.8%	2987 94.1%
chi-square test		ns	ns	P < 0.001	ns	ns
DZ	GOM in twin pairs	182 6.1%	52 3.0%	4 0.1%	4 0.1%	18 0.6%
	GOM not in twin pairs	453 15.2%	247 14.4%	60 2.2%	84 3.1%	171 5.3%
	no GOM	2336 78.6%	1415 82.6%	2691 97.7%	2661 96.8%	3045 94.2%

Table S2. Loss or gain of methylation (LOM or GOM, respectively), continued

> 10.0% difference from median		H19-ICR	IGF2-DMR	KvDMR	NESPAS-ICR	RUNX1
MZ	LOM in twin pairs	60 2.0%	74 4.3%	0 0.0%	22 0.8%	56 1.8%
	LOM not in twin pairs	265 9.0%	192 11.1%	52 1.9%	17 0.6%	72 2.3%
	no LOM	2612 88.9%	1464 84.6%	2672 98.1%	2720 98.6%	3047 96.0%
chi-square test		P < 0.01	ns	P < 0.001	P < 0.001	ns
DZ	LOM in twin pairs	38 1.3%	60 3.5%	0 0.0%	0 0.0%	56 1.7%
	LOM not in twin pairs	268 9.0%	195 11.4%	20 0.7%	17 0.6%	72 2.2%
	no LOM	2665 89.7%	1459 85.1%	2735 99.3%	2732 99.4%	3106 96.0%
MZ	GOM in twin pairs	110 3.7%	24 1.4%	0 0.0%	0 0.0%	4 0.1%
	GOM not in twin pairs	329 11.2%	174 10.1%	30 1.1%	32 1.2%	85 2.7%
	no GOM	2498 85.1%	1532 88.6%	2694 98.9%	2727 98.8%	3086 97.2%
chi-square test		ns	ns	ns	ns	ns
DZ	GOM in twin pairs	110 3.7%	24 1.4%	0 0.0%	0 0.0%	4 0.1%
	GOM not in twin pairs	329 11.1%	174 10.2%	22 0.8%	32 1.2%	85 2.6%
	no GOM	2532 85.2%	1516 88.4%	2733 99.2%	2717 98.8%	3145 97.2%
> 12.5% difference from median		H19-ICR	IGF2-DMR	KvDMR	NESPAS-ICR	RUNX1
MZ	LOM in twin pairs	42 1.4%	46 2.7%	0 0.0%	22 0.8%	0 0.0%
	LOM not in twin pairs	190 6.5%	147 8.5%	24 0.9%	7 0.3%	0 0.0%
	no LOM	2705 92.1%	1537 88.8%	2700 99.1%	2730 98.9%	3175 100.0%
chi-square test		P < 0.001	ns	P < 0.05	P < 0.001	ns
DZ	LOM in twin pairs	18 0.6%	32 1.9%	0 0.0%	0 0.0%	0 0.0%
	LOM not in twin pairs	192 6.5%	149 8.7%	15 0.5%	7 0.3%	0 0.0%
	no LOM	2761 92.9%	1533 89.4%	2740 99.5%	2742 99.7%	3234 100.0%
MZ	GOM in twin pairs	74 2.5%	10 0.6%	0 0.0%	0 0.0%	2 0.1%
	GOM not in twin pairs	254 8.6%	117 6.8%	20 0.7%	24 0.9%	59 1.9%
	no GOM	2609 88.8%	1603 92.7%	2704 99.3%	2735 99.1%	3114 98.1%
chi-square test		ns	ns	ns	ns	ns
DZ	GOM in twin pairs	74 2.5%	10 0.6%	0 0.0%	0 0.0%	2 0.1%
	GOM not in twin pairs	254 8.5%	117 6.8%	16 0.6%	24 0.9%	59 1.8%
	no GOM	2643 89.0%	1587 92.6%	2739 99.4%	2725 99.1%	3173 98.1%
> 15.0% difference from median		H19-ICR	IGF2-DMR	KvDMR	NESPAS-ICR	RUNX1
MZ	LOM in twin pairs	30 1.0%	34 2.0%	0 0.0%	22 0.8%	0 0.0%
	LOM not in twin pairs	124 4.2%	104 6.0%	11 0.4%	4 0.1%	0 0.0%
	no LOM	2783 94.8%	1592 92.0%	2713 99.6%	2733 99.1%	3175 100.0%
chi-square test		P < 0.001	P < 0.01	ns	P < 0.001	ns
DZ	LOM in twin pairs	6 0.2%	20 1.2%	0 0.0%	0 0.0%	0 0.0%
	LOM not in twin pairs	124 4.2%	105 6.1%	13 0.5%	4 0.1%	0 0.0%
	no LOM	2841 95.6%	1589 92.7%	2742 99.5%	2745 99.9%	3234 100.0%
MZ	GOM in twin pairs	62 2.1%	6 0.3%	0 0.0%	0 0.0%	0 0.0%
	GOM not in twin pairs	180 6.1%	79 4.6%	17 0.6%	8 0.3%	32 1.0%
	no GOM	2695 91.8%	1645 95.1%	2707 99.4%	2751 99.7%	3143 99.0%
chi-square test		ns	ns	ns	ns	ns
DZ	GOM in twin pairs	62 2.1%	6 0.4%	0 0.0%	0 0.0%	0 0.0%
	GOM not in twin pairs	180 6.1%	79 4.6%	11 0.4%	8 0.3%	32 1.0%
	no GOM	2729 91.9%	1629 95.0%	2744 99.6%	2741 99.7%	3202 99.0%